IMPROVED COMPOSITIONS AND METHODS FOR PRODUCING ANTIBODIES TO LOW MOLECULAR WEIGHT ANALYTES

ABSTRACT OF THE DISCLOSURE

for producing antibodies to low molecular weight analytes are presented. In one series of embodiments particularly useful for production of antibodies having specificity for metal ions, nonimmunogenic polymers having natural metal ion-binding activity, typically alginates, are used, after contact with metal ions, as an immunogenic composition. In another series of embodiments, immunogens are enmeshed in a crosslinked protein network to create a potent immunogenic composition. In the latter embodiments, gelatins of cold-water fish prove surprisingly efficacious.